I claim

- 1. A white light source, comprising:
- a substrate;
- a blue light-emitting diode placed on the substrate;
- a phosphor mixture coated on the blue light-emitting diode and composed of a red phosphor, a green phosphor and a yellow phosphor.
 - 2. The white light source as in claim 1, wherein the red phosphor is CaS: Eu or SrS: Eu.
- 3. The white light source as in claim 1, wherein the green phosphor is
 SrGa₂S₄:Eu or Ca₈EuMnMg(SiO₄)₄C₁₂.
 - 4. The white light source as in claim 1, wherein the yellow phosphor is YAG:Ce or TbAG:Ce.
 - 5. The white light source as in claim 1, wherein the white light source is packaged in a surface mount device.
- 6. The white light source as in claim 1, wherein the white light source is packaged in a lamp-type device.
 - 7. The white light source as in claim 1, wherein the substrate is an insulating substrate.
- 8. The white light source as in claim 1, wherein the blue light-emittingdiode is made of a nitride compound.
 - 9. The white light source as in claim 1, wherein the blue light-emitting

diode emits light with a wavelength of 400-490nm.

10. The white light source as in claim 1, wherein the red phosphor, the green phosphor and the yellow phosphor are mixed in a predetermined ratio.